

Geospatial Data Preservation and Access

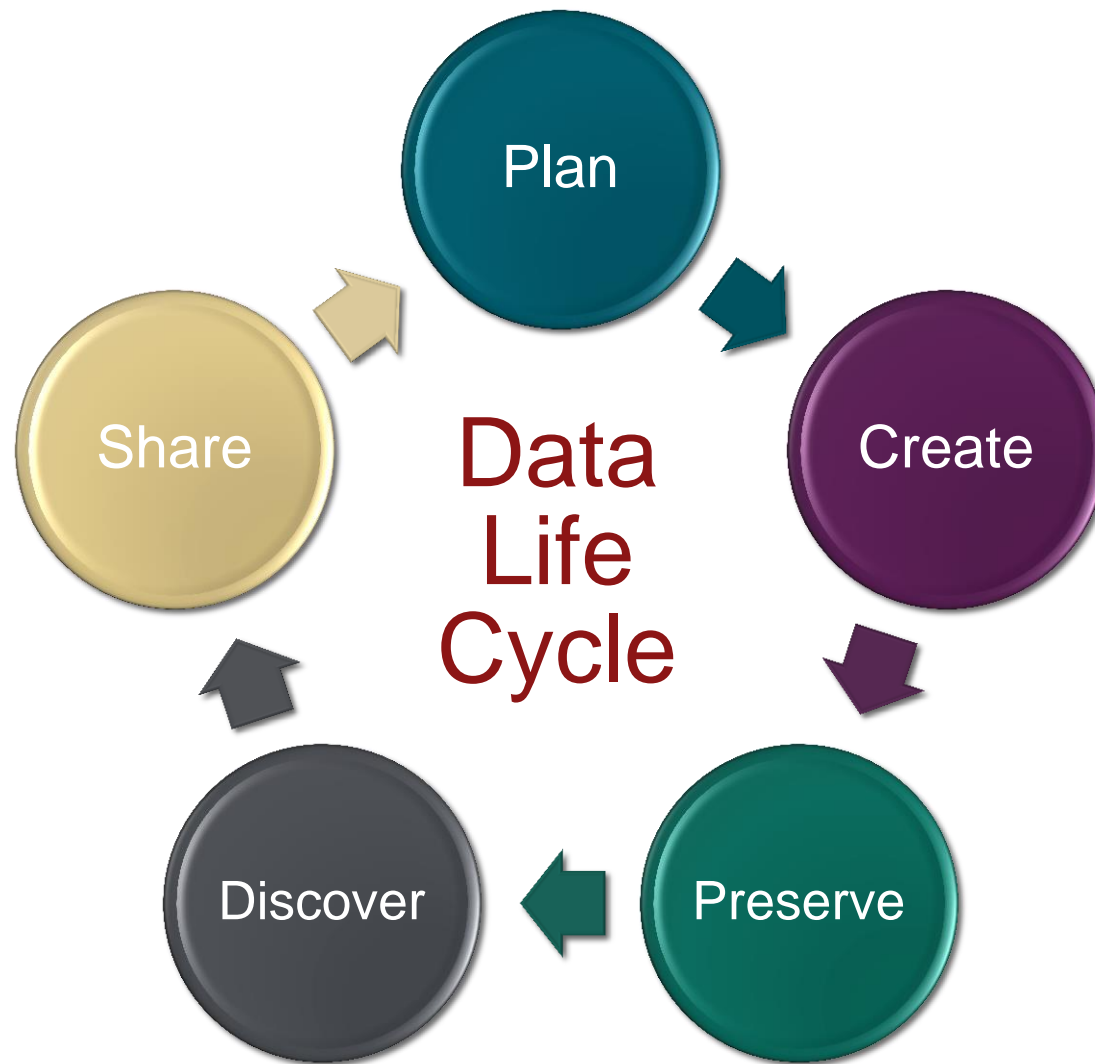
EASE OF DEPOSIT, EASE OF ACCESS

Julie Sweetkind-Singer

June 25, 2014

NGAC meeting





Do-It-Yourself Data Sharing

- Put it up on the web
 - stored on local server
 - delivery of files via web site
 - no preservation
 - no discovery
 - no guarantee URL will be stable
- Provide it upon request
 - stored anywhere
 - delivered via email or physically
 - no preservation
 - no discovery
 - no guarantee you'll remember where it is



Stanford Digital Repository

- Management of scholarly information resources of enduring value to the university
- Content is preserved in a robust, reliable, and secure environment
- Content is discoverable via catalog and Google crawling
- Content is accessible via PURL downloads
- Scholars around the world access our digital content for their research



SDR Facts

- **Storage:** redundant in geo-diverse locations, audited systematically to ensure bit preservation
- **Format:** spinning disks & tape
- **Volume:** 130+ TB of unique content (~500,000 objects)
- **Content:** books, manuscripts, maps, photographs, audio, video, data, web sites, theses, dissertations, articles, etc.
- **Scope:** no restrictions on file formats
- **Users:** faculty, students, researchers, library and other staff



SDR Online Deposits

- **Publications:** articles, working papers, pre-prints
- **Technical reports**
- **Conference materials:** slides, posters, etc.
- **Research data:** spreadsheets, images, video, etc.
- **Student work:** honors theses, class research projects
- **Archival records:** documents, event recordings, oral histories



SDR Features

- License options
- Embargo options
- Public access levels for finding, viewing, and downloading content
 - World access
 - Stanford-only access
- Indexed in SearchWorks (library catalog)
- Assigned PURL
- Version management



Preservation



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Stanford Digital Repository – Online Deposit

The SDR is a service supporting long-term management of scholarly information resources at Stanford. Faculty, students, and researchers use the SDR to promote and protect the products of their work. The benefits of this service distinguish the SDR from other content storage or management options on campus: deposited scholarly content is preserved in a robust, reliable, and secure environment and is available from persistent URLs (PURLs) with optional access controls.



The growing body of content deposited in the SDR includes:

- scientific research data like [this data set](#)
- digital humanities research data like [this corpus](#)
- honors theses, like [this undergraduate work](#)
- images, audio and video like [this podcast](#)
- software and computer games like [DOOM](#)
- student projects, like [this final team report](#)
- technical reports like [this publication](#)
- archival collections like [Project MKULTRA](#)

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Salmon Conservation




Sharing

Image by Andrew Russell CC BY 2.0



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Sharing


Stanford Digital Repository

Data Supplement for "Range-wide selection of catchments for Pacific salmon conservation."

Author/Creator: Pinsky, Malin L (Author)
Springmeyer, Dane B. (Author)
Goslin, Matthew N. (Author)
Augerot, Xanthippe (Author)

Language: English

Date created: 2009

Type of resource: Software, multimedia

Genre: Dataset

Abstract: Freshwater ecosystems are declining in quality globally, but a lack of data inhibits identification of areas valuable for conservation across national borders. We developed a biological measure of conservation value for six species of Pacific salmon (*Oncorhynchus* spp.) in catchments of the northern Pacific across Canada, China, Japan, Russia, and the United States. We based the measure on abundance and life-history richness and a model-based method that filled data gaps. Catchments with high conservation value ranged from Califor ... [more »](#)

Preferred Citation: Pinsky, ML, Springmeyer, DB, Goslin, MN, Augerot, X (2009). Data Supplement for "Range-wide selection of catchments for Pacific salmon conservation." Stanford Digital Repository. Available at <http://purl.stanford.edu/zc193vn8689>.









Related Publication: Pinsky, M. L., Springmeyer, D. B., Goslin, M. N. and Augerot, X. (2009). Range-Wide Selection of Catchments for Pacific Salmon Conservation. *Conservation Biology*, 23: 680-691. doi: 10.1111/j.1523-1739.2008.01156.x. Available at <http://onlinelibrary.wiley.com/doi/10.1111/j.1523-1739.2008.01156.x/full>.

Contact: malin.pinsky@gmail.com

Collection: Hopkins Marine Station Collection

Related item: Wild Salmon Center
State of the Salmon
Abundance Estimates of the Pacific Salmon Conservation Assessment Database, 1978-2008

Subject: conservation planning
freshwater protected areas
landscape variables
northern Pacific
Oncorhynchus
salmon áreas dulceacuícolas protegidas
Oncorhynchus
Pacífico del norte
planificación de la conservación
salmon
variables de paisaje

File (Download)	Description
 Pinsky_et al_AbundanceDatabase2008.csv (2 MB)	Abundance Database as published
 Hydro1kshapefile.zip (6 MB)	Catchment ArcGIS shapefile to be used for georeferencing the Abundance and Run-timing databases (link CatchmentID in the database to NLEVELS in the shapefile). Shapefile includes river names.
 Abundance_Database_Metadata.pdf (70 KB)	Describes the content of each field in the Abundance Database (Pinsky_et al_AbundanceDatabase2008.csv and Pinsky_et al_2009_AbundanceData-2010-09-29.csv)
 RunTiming_Database_Metadata.pdf (70 KB)	Describes the content of each field in the Run Timing Database (Pinsky_et al_2009_RunTimingData-2010-09-29.csv)
 Pinsky_et al_Sources.pdf (90 KB)	List of data sources for Abundance Database
 Pinsky et al. 2009 Conservation Biology 23(3)-680-691 Supplemental Data_v2.pdf (40 KB)	Overview of this set of supplemental data files
 Pinsky_et al_2009_AbundanceData-2010-09-29.csv (3 MB)	Revised Abundance Database. Removed duplicate sockeye abundance record from AK Peninsula (CatchmentID 15917)
 Pinsky_et al_2009_RunTimingData-2010-09-29.csv (200 KB)	Run Timing Database

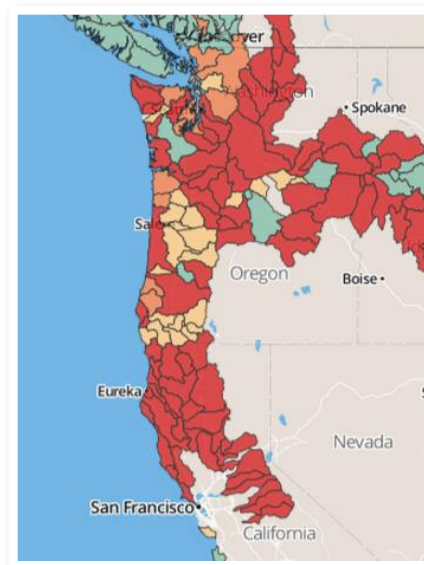
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PUTTING DATA ON THE
MAP



<http://purl.stanford.edu/vv853br8653>



Dedicated geospatial portal

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Getting Started

SEARCH [advanced options](#)

253 RESULTS by Relevancy Columns

Type	Name	Rep	Access	Preview
Watersheds of the Pacific Salmon Cons		Public		
Oil and Gas Wells in the United States, 2		Public		
Carbon Dioxide (CO2) Pipelines in the U		Public		
Oil and Gas Basins in North America, 20		Public		
Oil and Gas Fields in the United States, :		Public		
Public Lands Survey System, Townships		Public		
Public Lands Survey System, Section Le		Public		
Lakshadweep, India: Village Socio-Dem		Public		
Kerala, India: Post Delimitation State As		Public		
Kerala, India: Pre Delimitation State Ass		Public		
Kerala, India: Village Socio-Demographi		Public		
Periyar Watershed, India : Sub-Basin Bo		Public		
Periyar Watershed, India : Basin Bounda		Public		
Periyar Watershed, India : Drainage Area		Public		
Periyar Watershed, India : River & Tribut		Public		
Valpar Watershed, India : Rivers & Tribut		Public		



Data preview

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SEARCH [clear previews](#) [go](#)

Search for data layers... [advanced options](#)

417 RESULTS by Relevancy Columns

Type	Name	Rep	Access	Preview
<input type="checkbox"/>	Watersheds of the Pacific Salmon Cons		Public	<input checked="" type="checkbox"/>
opacity: 80% border: 1px				
<input type="checkbox"/>	Census Metropolitan Statistical Areas, 1:		Public	<input type="checkbox"/>
<input type="checkbox"/>	Census Traffic Analysis Zones, 1995 - Al		Public	<input type="checkbox"/>
<input type="checkbox"/>	UA Census Metropolitan Statistical Area:		Public	<input type="checkbox"/>
<input type="checkbox"/>	UA Census Traffic Analysis Zones, 2000		Public	<input type="checkbox"/>
<input type="checkbox"/>	Census Urbanized Areas, 1995 - Alaska		Public	<input type="checkbox"/>
<input type="checkbox"/>	UA Census Urbanized Areas, 1990 - Ala:		Public	<input type="checkbox"/>
<input type="checkbox"/>	Global GIS : Alaska Faults		Public	<input type="checkbox"/>
<input type="checkbox"/>	Global GIS : Alaska Geology		Public	<input type="checkbox"/>
<input type="checkbox"/>	UA Census Urbanized Areas, 2000 - Ala:		Public	<input type="checkbox"/>
<input type="checkbox"/>	Census Physical Features, 1995 - Alask		Public	<input type="checkbox"/>
<input type="checkbox"/>	Census Key Geographic Locations, 199:		Public	<input type="checkbox"/>
<input type="checkbox"/>	Census Place, 1995 - Alaska		Public	<input type="checkbox"/>
<input type="checkbox"/>	UA Census American Indian Reservator		Public	<input type="checkbox"/>
<input type="checkbox"/>	American Indian Reservations, 1995 - Al		Public	<input type="checkbox"/>



Attribute data preview

GeData@Stanford

BETA

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Cart (0)

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Search

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Columns

Type	Name	Rep	Access	Preview
	Watersheds of the Pacific Salmon Cons		Public	
opacity: 80% border: 1px				
	Census Metropolitan Statistical Areas, 1:		Public	
	Census Traffic Analysis Zones, 1995 - Al		Public	
	UA Census Metropolitan Statistical Area:		Public	
	UA Census Traffic Analysis Zones, 2000		Public	
	Census Urbanized Areas, 1995 - Alaska		Public	
	UA Census Urbanized Areas, 1990 - Ala:		Public	
	Global GIS : Alaska Faults		Public	
	Global GIS : Alaska Geology		Public	
	UA Census Urbanized Areas, 2000 - Ala:		Public	
	Census Physical Features, 1995 - Alask		Public	
	Census Key Geographic Locations, 199:		Public	
	Census Place, 1995 - Alaska		Public	
	UA Census American Indian Reservator		Public	
	American Indian Reservations, 1995 - Al		Public	

clear previews

FEATURE ATTRIBUTES

Watersheds of the Pacific Salmon Conservation Assessment Study Area, 1950-2005

objectid_1	367
nlevel5	15917.000000000000
studarea	1
areakm	44853.22820430000
cons_unit	SE BERING SEA INNER SHELF
name	Alaska Peninsula, AK (west of Dog Salmon River)
lamazi_km	44647.4787185000
name2	Alaska Peninsula
lat	55.4044536631
long	-162.274089040
pa_km2	32924.7116305
pai_iv_km2	32924.7116137
country	United States
continent	North America
name3	Alaska Peninsula including Chignik and King Salmon
drainname	Alaska Peninsula including Chignik and King Salmon
transnat	0
oid_	5016
catchmenti	15917
name_1	North/South Peninsula &Chignik
dam	NA
spp	Sockeye
runtiming	NA
runtimingn	NA
totalwretu	6150687
method	1



Metadata information and data download

GeData@Stanford

Getting Started Search Cart (0)

SEARCH

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417 RESULTS by Relevancy

Type	Name	Rep	Acc
Watersheds of the Pacific Salmon Conservation Assessment Study Area, 1950-2005			
Census Metropolitan Statistical Areas, 1990 - Alaska			
Census Traffic Analysis Zones, 1995 - Alaska			
UA Census Metropolitan Statistical Areas, 1990 - Alaska			
UA Census Traffic Analysis Zones, 2000 - Alaska			
Census Urbanized Areas, 1995 - Alaska			
UA Census Urbanized Areas, 1990 - Alaska			
Global GIS : Alaska Faults			
Global GIS : Alaska Geology			
UA Census Urbanized Areas, 2000 - Alaska			
Census Physical Features, 1995 - Alaska			
Census Key Geographic Locations, 1990 - Alaska			
Census Place, 1995 - Alaska			
UA Census American Indian Reservation			
American Indian Reservations, 1995 - Alaska			

Watersheds of the Pacific Salmon Conservation Assessment Study Area, 1950-2005 - Stanford Digital Repository - Mozilla Firefox

purl.stanford.edu/vv853br8653

Stanford Digital Repository

Watersheds of the Pacific Salmon Conservation Assessment Study Area, 1950-2005

Author/Creator: Pinsky, Malin L. (creator)
Springmeyer, Dane B. (creator)
Goslin, Matthew N. (creator)
Augerot, Xanthippe (creator)

Imprint: 2009

Date valid: 1950-2005

Type of resource: Cartographic, Software, multimedia

Genre: Geospatial data
Cartographic dataset

Format: Shapefile
7.793 MB

Digital origin: born digital

Map data: Scale not given. ; EPSG::4267 (W 180°--E 180°/N 73°59'27"--N 24°13'53")

Abstract: This polygon dataset shows the watershed features of the Pacific Salmon Conservation Assessment study (PSCA) area. These data include catchments of the Northern Pacific across Canada, China, Japan, Russia, and the United States. Catchments with high conservation value ranged from California to northern Russia and included catchments in regions that are strongly affected by human development (e.g., Puget Sound). The PSCA study area data is derived from the HYDRO1K Drainage Basins dataset which is based on a one-kilometer resolution ... [more »](#)

Purpose: This shapefile can be used for georeferencing the Abundance and Run-timing databases that comprise part of the Pacific Salmon Conservation Assessment database. To use link the CatchmentID in the database to NLEVEL5 in this shapefile.

Preferred citation: Pinsky, M.L., Springmeyer, D.B., Goslin, M.N., Augerot, X (2009). Watersheds of the Pacific Salmon Conservation Assessment Study Area,

Available download formats:

- [Data \(6 MB\)](#)
- [Data \(6 MB\)](#)



Future Directions

- Better capabilities for deposit of large data sets
 - Files that are > 5GB
 - Many files
 - Both
- Dedicated discovery interfaces: GeoBlacklight
- Cost model for larger projects
- Custom licenses/use/reproduction statements

